

S/196/63/000/002/015/026 E194/E155

AUTHORS: Huber, Gyula, and Nemeth, Lajos

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TITLE: A multi-core cable of high strength with plantic

sheathing

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i emergetika,

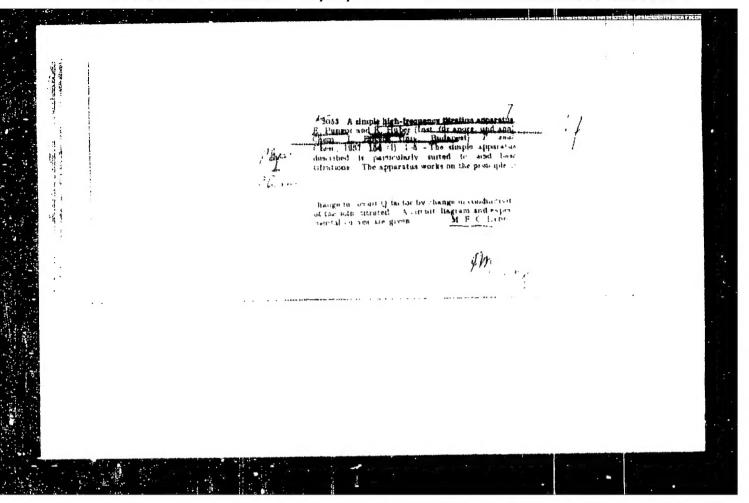
no.2, 1963, 30, abstract 2 B 150. (Hung. pat, cl. 21 c, 20-27, no. 148969, February 28, 1962)

TEXT: (No text given)

Card 1/1

SCHWIETER, A.; HUBER, H.; FALVAI, Alfred, dr.

Heat utilization during the drying of leached slices. Gukor 16 no.3:75-81 Mr '63.



HUBER, Lajos

Socialist transformation of agriculture and the trade-union movement. Munka 8 no.7:5-6 Jl '58.

1. Kozalkalmazottak Szakszervezete fotitkara.

HUNGARY

HUBER, Laszlo, Dr. SZIIAGYI, Laszlo, Dr; Janos Hospital-Ambulatory Service (director: TAKO, Jozsef, Dr), Surgical Ward (chief physician: GERGELY, Rezso, Dr) and Central Laboratory (chief physician: HAMMER, Sarolta, Dr) (Janos Korhaz-Rendelointezet, Sebeszeti Osztaly es Kozponti Laboratorium), Budapest.

"Acute Intermittent Porphyria."

Budapest, Magyar Sebeszet, Vol XIX, No 2, Apr 66, pages 121-123.

Abstract: [Authors' German summary] On the basis of a few cases reported, attention is called to the surgical aspects of acute intermittent porphyria. It is recommended that, in cases of non-specific abdominal complaints, the "inverse aldehyde reaction" be carried out among the routine urine tests; it is simple and easy to carry out, and may clarify the diagnosis. As seen in one presented case, the finding of an increased amount of porphyrine does not, of course, exclude the possibility of the concurrent presence of an acute surgical illness. 7 Hungarian, 11 Western references.

1/1

HUBER, Lajos

Some questions relating to the village trade union work. Munka 9 no.3:14-15 Mr '59.

1. Kozalkalmazottak Szakszervezetenek fotitkara.

HUBER, Lajos

Labor movement in government offices. Munka 10 no.9:6-7 S '60.

1. Kozalkalmazottak Szakszervezete fotitkara.

HUNGARY

HUBER, Laszlo, Dr; Capital City Janos Hospital, Surgical Ward (Fovarosi Janos Korhaz, Sebeszeti Osztaly), Budapest.

"Primary Carcinoma of the Appendix."

Budapest, Orvosi Hetilap, Vol 104, No 43, 27 Oct 63, pages 2048-2049.

Abstract: [Author's Hungarian summary] A case of appendix carcinoma is described by the author which was removed surgically after a diagnosis of acute appendicitis. The case is the second primary carcinoma of the appendix reported in Hungary. 2 Hungarian, 8 Western references.

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SOMI-KOVACS, Tibor, dr.; Statisztikai munkatars: HUBER

Evaluation of the mobile x-ray mass screening in 1961 and some problems of its further development. Tuberkulozis 16 no.10: 304-307 0 163.

(TUBERCULOSIS, PULMONARY) (MASS CHEST X-RAY)
(STATISTICS)

SOMI-KOVACS, Tibor, dr.; statisztikai munkatars: HUEER, Marta

Analysis of the results of mass radiography in the years 1959-60. Tuberkulozis no.8:228-231'Ag '62.

1. Az Orszagos Koranyi Tbc Intezet (igazgato-foorvos: Boszormenyi Miklos dr. kandidatus; tudomanyos igazgato: Foldes Istvan dr. kandidatus) kozlemenye.

(MASS CHEST X RAY)

HUBER, R.; IGLAUER, E.

Considerations on new techniques of irradiation of deep tumors. Cesk.rentg. 13 no.6:400-406 D '59.

1. Onkologicka klinika ustavu pro lekarskou biologii Nemecke akademie ved. prednosta prof.dr. H. Gummel, Berlin-Buch, NDR. (NEOPLASMS radiother.)

HUBER, Robert, dr.; SAMUEL, Andras, dr.

Data on the pathomechanism of dangerous ovarian hemorrhage in non-pregnant women. Orv. hetil. 102 no.50:2378-2379 10 D 161.

1. Fovarosi Bajcsy-Zsilinszky Korhaz, "Paula" Szuleszeti Osztaly.

(OVARIES dis) (HEMORRHAGE)

SELMECI, Erno, dr.; HUBER, Robert, dr.

Data on the conservative surgery of extrauterine pregnancy. Orv. hetil. 103 no.44:2092-2094 4 N '62.

1. Bajcsy-Zsilinszky Korhaz, "Paula" Szuleszet-nogyogyaszat. (PREGNANCY, ECTOPIC)

HUBER, Rudolf, inz. (Ostrava I, Mlynska 11); DOLEZAL, Richard, inz., dr. (Ostrava)

Removing sediments from the water in steam boilers. Energetika Cz 12 no.10:558 0 4.

DOWZENKO, Anatol; HUBER, Zdzislaw

Epileptic seizures in children. Neurol.neurochir. pshychiat. pol.13 no.6:761-767 N-D'63

¥

HUBER, Zdzislaw; ROGUSKA, Jadwiga; HASIK, Jan; MARCINKOWSKA, Barbara

Electroencephalographic changes in patients operated on for tumors of the brain. Neur. &c polska 10 no.2:231-235 Mr-Ap '60.

1. Z Kliniki Neurochirurgii A.M. w Poznaniu Kierownik: Z. prof. dr med. H.Powiertowski i z Kliniki Chorob Wewnetrznych A.M. w Poznaniu Kierownik: prof. dr med. J.Roguski.

(BRAIN NEOPLASMS surg)

(ELECTROENCEPHALOGRAPHY)

DOWZENKO, Anatol, HUBER, Zdzielaw

The problem of genetics in epilepsy. Neur.&c.polska 10 no.5: 639-646 160.

1. Z Kliniki Neurologicznej A.M. w Poznaniu, Kierownik: prof.dr A. Dowzenko i z Kliniki Neurochirurgii A.M. w Poznaniu, Kierownik: prof.dr H.Powertowski. (EPILEPSY genetics)

POWIERTOWSKI, Hieronim; HUBER, Zdzislaw

Tests in patients with brain damages. I. Results of Kohs! test and EEG studies in patients with epilepsy. Rozpr.wydz.nauk med. 6 no.2: 243-252 '61.

1. Zespol prac z Kliniki Neurchirurgii AM w Poznaniu Kierownik: zast. prof. dr H. Powiertowski.

(EPILEPSY diag) (PSYCHOLOGICAL TESTS)
(ELECTROENCEPHALOGRAPHY)

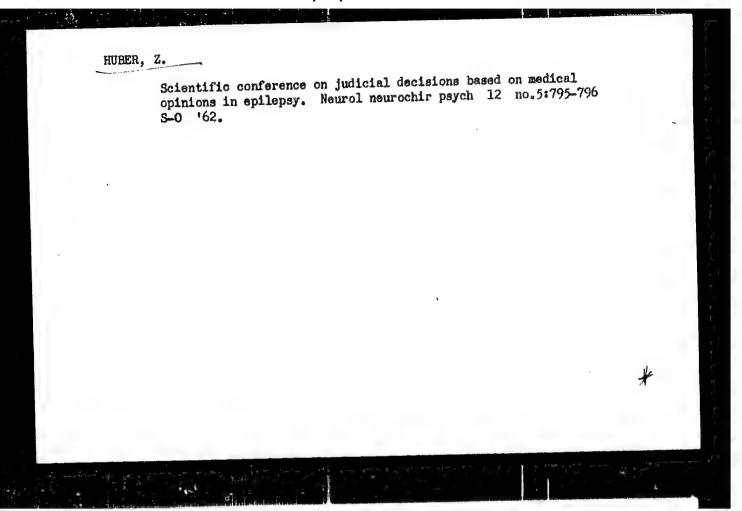
HUBER, Zdzislaw; NOWICK, Halina

Tests in patients with brain damages. III. Comparison of the degree of intellectual efficiency measured by Wechsler's method with results of electroencephalographic examinations in 50 epileptic patients.

Rozpr.wydz.nauk med. 6 no.2:265-271 61.

1. Zespol prac z Kliniki Neurochirumgii AM w Poznaniu Kierownik: zast. prof. dr H. Powiertowski.

(EPILEPSY diag) (INTELLIGENCE TESTS) (ELECTROENCEPHALOGRAPHY)



HUBER, Zdzislaw; ROGUSKO, Jadwiga; HASIK, Jan

Results of electroencephalographic studies on patients with chronic circulatory insufficiency. Pol. arch. med. wewn. 32 no.9:1077-1080 162.

1. Z Kliniki Neurochirurgii AM w Poznæniu Kierownik: Z-ca prof. dr med. H. Powiertowski i z II Kliniki Chorob Wewnetrznych AM w Poznaniu Kierownik: prof. dr med. J. Roguski. (ELECTROENCEPHALOGRAPHY) (HEART FAILURE CONGESTIVE)

STRAYZEMSKI, W., KALWARYJSKA, H., HUBER, Z., LORKIEWICZ, A.

The status of the central nervous system before and after open heart surgery in children. Kardiol. Pol. 7 no.2:141-144 164.

1. Z Oddzialu Chirurgii Torakalnej (Ordynator: prof. dr J. Moll); z Oddzialu Neurologicznego Szpitala Miejskiego im. J. Strusia (Ordynator: dr T. Frackowiak) ora: z Kliniki Neurochirugii Akademii Medycznej w Poznaniu Kierownik: prof. dr H. Powiertowski).

DOWZERSO, ALSTON; HUBER, Zdzislaw

Tosaporal lobe epilepsy - etiopathogenesis, clinical pathophysiology and localization problems. Neurol. neurochir. psychiat. Pol. 15 no.3:371-376 My-Je 165.

l. Z Kliniki Neurologicznej Instytutu Psychoneurologicznego (Kierownik: prof. dr. A. Dowzenko) i z Kliniki Neurochirurgii AM w Poznaniu (Kierownik: doc. dr. H. Powiertowski).

WENDER, Mieczyslaw; HUBER, Zdzielaw,

An attempt to correlate the pathomorphology of an epileptic focus with the clinical condition of patients with temporal lobe epilepsy. Neurol. neurochir. psychiat. Pol. 15 no.3: 425-431 My-Je 165.

1. Z Kliniki Neurologicznej AM w Poznaniu (Kierownik: doc. dr. med. M. Wender) i z Kliniki Neurochirurgii AM w Poznaniu (Kierownik: doc. dr. med. H. Powiertowski).

HUBER, Zdzislaw; PRUSZEWICZ, Antoni; SZMEJA, Zygmunt; BIALEM, Edmund

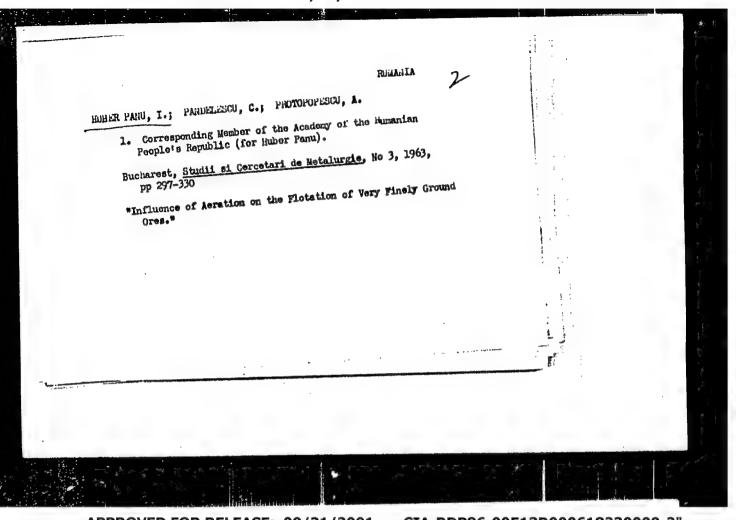
Studies on smell, taste, hearing, balance, vision and surface sensation after anterior temporal lobectomy. Neurol. neurochir. psychiat. Pol. 15 no.3:475-480 My-Je 165.

1. Z Kliniki Neurochirurgii AM w Poznaniu (Kierownik: doc. dr. med. H. Powiertowski) i z Kliniki Otolaryngologicznej AM w Poznaniu (Kierownik: prof. dr. med. A. Zakrzewski).

HUBER PANU, I., prof., dr., ing.

Current problems in the field of crushing, and progress made. Rev min 13 no.2:48-61 F '62.

1. Membru corespondent al Academiei R.P.R. si Membru al Comitetului de redactie, "Revista minelor."



HUBER-PANU, I. Some equations for flotation kinetics. Rev Roum metallurg 9 no. 1:3-16 '64. 1. Corresponding Member of the Rumanian Academy.

HUBER-PANU, I.; PANDELESCU, C.; PROTOPOPESCU, A.

Studies on the influence of aeration on the flotation of very fine crushed minerals. Rev Roum metallurg 9 no. 1: 17-38 '64.

1. Correspondeing Member of the Rumanian Academy (for Huber-Panu).

ACC NRI AP6004955	SOURCE CODE: RU/QQ27/65/D10/001/0089/0	11(1)
NUTHOR: Huber-Panu	, I. (Corresponding member of Academy RPR)	45
ORG: none		25
TITLE: Kinetics of	flotation with air released from the solution-	
OURCE: Studii si	cercetari de metalurgie, v. 10, no. 1, 1965, 89-103	
COPIC TAGS: flotati	ion, solution kinetics	
extraction of use	uthor establishes the equations for the sful substance and for the speed of flotation time for the case of flotations with air re-	
extraction of use as functions of t leased from the s imental results] flotation in such	eful substance and for the speed of flotation time for the case of flotations with air resolution. These equations as well as expersional to the conclusion that the speed of h cases is larger than for regular flotation, ase of very fine materials. Orig. art. has: 2 figures,	
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L 41193-66 EWP(e) WH ACC NR: AP6018322

(N)

SOURCE CODE: PO/0015/66/000/001/0006/0011

AUTHOR: Roj, Wladyslaw; Hubert, Andrzej

State & Hill as L. Co. Keep of the Him March 1991

ORG: Jelenia Gora Optical Factory (Jeleniogorska Wytwornia Optyczna)

TITLE: A method for controlling the index of refraction of optical glass during

founding

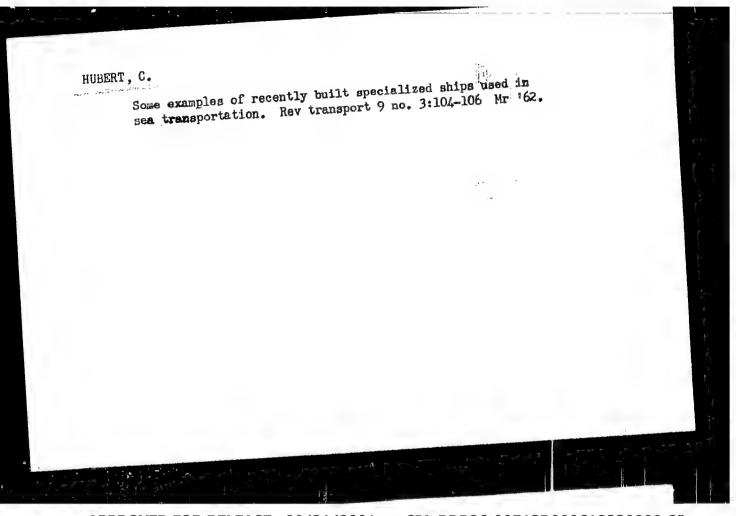
SOURCE: Szklo i ceramika, no. 1, 1966, 6-11

TOPIC TAGS: optic glass, glass property, refractive index

ABSTRACT: A detailed description is given of a method for controlling the refractive index of optical glass by measuring this parameter immediately after the glass has been made while it is still saturated with gases and then adding the appropriate ingredeients to correct the glass composition until the refractive index is properly adjusted. Addition of the corrective components at this stage does not hurt the quality of the glass since the additives are easily melted and dispersed throughout the entire mass. The immersion method is used for measuring the refractive index of arbitrarily shaped specimens. The piece of glass is placed in a mixture of liquids and the composition is varied to balance the refractive index of light passing through the fluid and the glass for a given wavelength. The relative error for this method is less than ±10⁻⁴. The equipment for taking the measurements and the method used for

Card 1/2

ACC NR: APe	errective compone	ents are described	d in detail. Onl	y 30 minutes are re	guired
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SUB CODE: 11	./ SUBM DATE: 1	none/ ORIG REF:	001	•	
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Card 2/2 //	4.1				



guerr, C.

Economic operation of Rumanian maritime vessels in relation to continental European ports.

P. I (REVISTA TRANSPORTURILOR) (Rucuresti, Rumania) Vol. h. no. 12, Dec. 1957

SO: Monthly Index of Fast European Accessions (EMAI) LC Vol. 7, No. 5, 1950

CIA-RDP86-00513R000618230009-2" APPROVED FOR RELEASE: 09/21/2001

Hubert, C.

The use of cargo vessels on regular lines or in tramps. p. 145

REVISTA TRANSPORTURILOR. (Asociatia Stintifica a Inginerilor si Tehnicienilor din Rominia si Ministerul Transporturilor Rutiere, Navale si Aeriene) Bucuresti. Vo. 6, No. 4, Apr., 1959

Monthly list of East European Accessions (EEAI) LC./ No. 8, Aug. 1959

Uncl.

HUBERT, C.

Development of the compercial maritime and fluvial marine in Bulgaria. P 220.

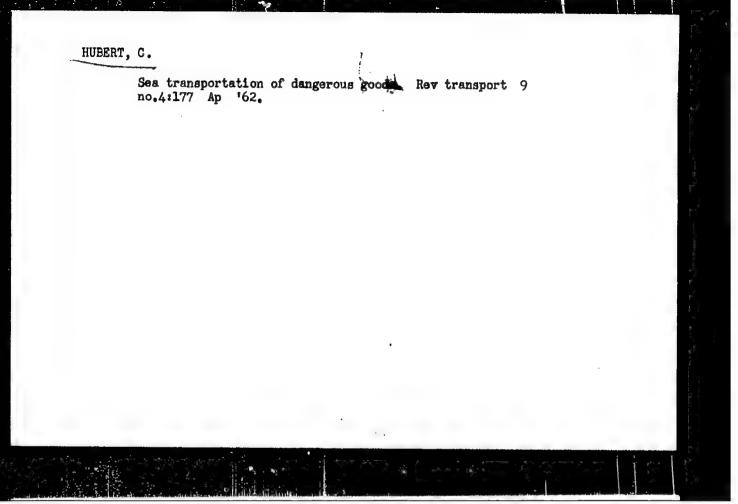
REVISTA TRANSFORTURILOR. (Asociatia Stinitifica a Inginerilor si Technicienilor din Rominia si Ministerul Transporturilor Rutiero, Navale si Aeriene) Bucuresti, Romania. Vol. 6, no. 5, May 1959.

Monthly List of East European Accesions (EFAI) LC. Vol. 8, no. 9, Sept. 1959.

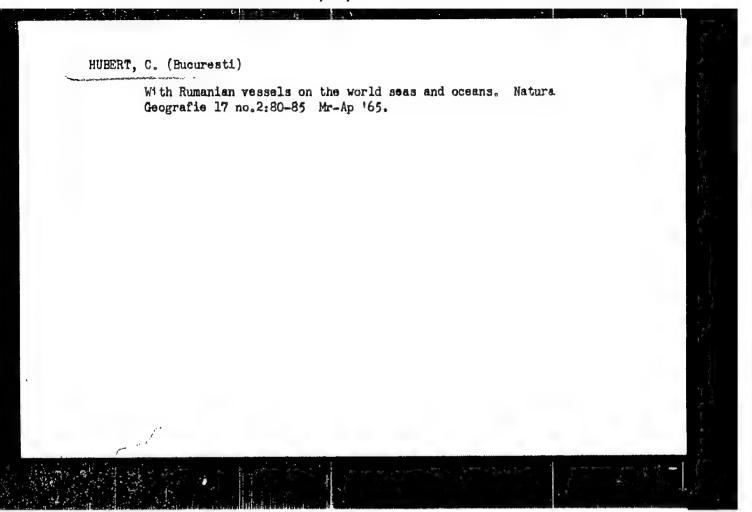
Uncl.

HUBERT, C.

Launching of the Rumanian cargo ships "Victoria" and "Timisoara." Rev transport 9 no.1:41 Ja 162.



APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618230009-2"



HUBERT, E. "Possibilities of Better Use of our Office Hachines." p. 34 (TOBSTERELES. Vol. 3, No. 12, Dec. 195h; Budapest, Hungary.) So: Nonthly List of East European Accessions, (EEAL), IC, Vol. h, No. 4, April 19 5, Uncl..

ADTINUTE, B.; DEAGAN, H. STATOU, L.; MUSINET, -.; TACOS, H.

Sucharost, Studii of Concetant de Hotelurio, No 4, 1963,
pp 375-390

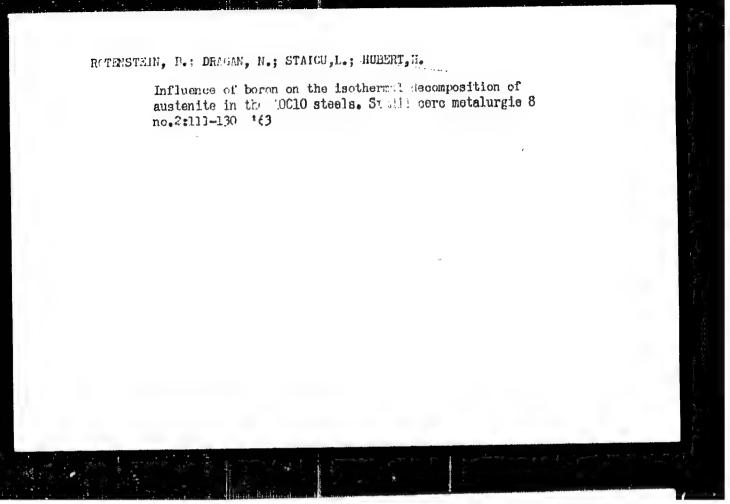
"Contributions to the Study of the Transformation of Austenite
in Carbon Steels."

HUBERT, H.

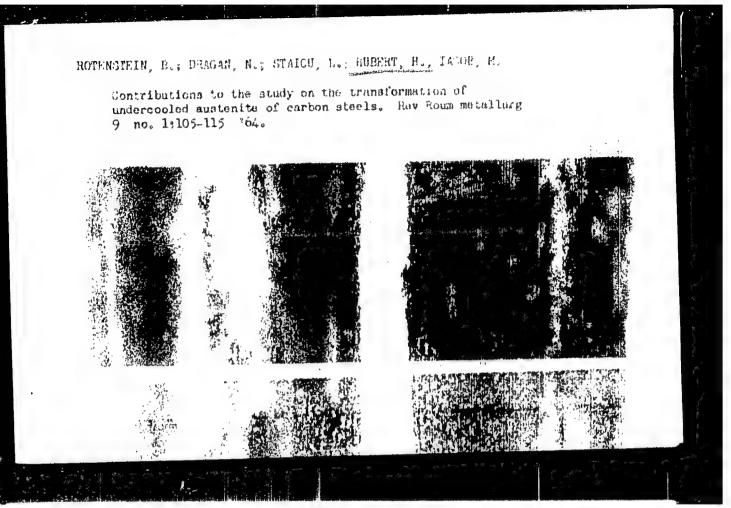
Lenino fourteen years later.

p. 3 (Zolnierz Polski, No. 25, Oct. 1957. Warszawa, Foland)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, nc. 2, February 1958



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APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618230009-2"

AUTHOR: Nubert, H. (Engineer)

ORG: Metallurgical Research Institute (Institutul de cercetari metalurgice)

TITLE: Microsections in electron metallography

SOURCE: Metallurgia, no. 6, 1965, 318-321

TOPIC TAGS: metallography, metallurgy

ARSTRACT: The author describes the methods of preparing, examining and interpreting microsections in electron metallography, and calls attention to the advantages of the method. Orig. art. has: 4 figures. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 11 / SUEM DATE: none / SOV REF: 008 / OTH REF: CO2

R/009/62/000/007/001/001 D272/D308

AUTHORS:

Cosma, Dante, Baicu, Ștefania, Kundacgian, Ardaș

and Hubert, Hilda, Engineers

TITLE:

Considerations concerning the production of a ferrite-

martensitic refractory steel for gas turbine blades

PERIODICAL:

lietalurgia și construcția de mașini, no. 7, 1962, 586-593

586-593

The processing of a Nb-containing ferrito-martensitic refractory steel was studied, in an effort to develop a material suitable for the construction of gas turbine blades operating in the temperature interval 550-650°C, with mechanical properties equal to those of the high Ni-Cr content austenitic steels used for this purpose. The composition of the starting material was: G 0.16, 10 0.76, Si 0.35, Sr 11.40, V 0.30, No 0.60, Nb 0.28, Ni 0.48, 10 0.060 and 02 0.0080%. Macroscopic and microscopic faults appear in this steel after the required thermal treatments and these were eliminated by a series of preventive measures. Blow formation was Card 1/2

R/009/62/000/007/001/001 D272/D308

Considerations concerning ...

prevented by a considerable reduction of the gas content at the moment of casting; this was accomplished by several complementary actions comprising vigorous boiling of the bath, advanced deoxidation, and lowering of the temperature in certain stages of the process. The strong tendency for trans-crystallization was prevented by increasing the rate of crystallization, by using thin-walled ingot moulds (high temperature gradient) and low casting temperatures (1540 \pm 20°C), and by hindering the tendency towards crystal growth by the use of low melting and surface active modifiers (Ca-Si). The formation of parallel linear structures was prevented by climination of the \propto (δ) phase through an addition of 1.75 -2.75% Ni. The results were highly satisfactory, and allowed austenitic steels to be replaced by the cheaper ferrito-martensitic steels for gas turbine blades. There are 10 figures and 4 tables.

ASSOCIATION:

Institutul de cercetări metalurgice (Metallurgical

Research Institute)

Card 2/2

ROTENSTEIN, B.; DRAGAN, N.; STACIU, L.; HUBERT, H.

(None)

Bucharest, Studii si Cercetari de Metalurgie, No 2, 1963, pp 111-130

"The Influence of Boron On the Isothermal Decomposition of Austenite In 40Cl0 Steel."

(4)

HUBERT, H., ing.

Electron microscope in metallurgy. Metalurgia Rum 17 no.2:92-

1. Metallurgic Research Institute.

95 F 165.

HUBERT, Irena

Major works of the Institute of Civil Engineering performed in 1963. Inst tech bud biul inf no.17:65-66 '64.

HUBERT, Irena

Scientific research works of the Institute of Civil Engineering in 1961. Inz i bud 19 no.12:487-491 D '62.

ACC NR: AP6019955 AUTHOR: Vinar, O. (Prague); Kulhankova, O.; Jirackova, H.; Svestka, J.; Jinbert, J.; Hlavackova, M.; Tomanova, M.; Rikovsky, S.; Strnad, M.; Kloubek, A.; Nahunek, K.; Hlavackova, D.; Svestkova, E.; Zachova, J.; Cerny, M.; Klik, J.; Ledererova, E.; Bartova, D.; Svestkova, E.; Zachova, J.; Cerny, M.; Klik, J.; Ledererova, E.; Topiar, A.; Tesarova, O.; Molcan, J.; Horak, J.; Baudis, P.; Sohotkievicova, J.; Chloupkova, K.; Bojanovsky, J.; Kubicek, V.; Hankovasky, H.; Vinarova, M.; Basteck, J.; Grof, P.; Dvorakova, M. O'R.: Feychiatric Research Institute, Prague TITLE: Controlled clinical comparison of 6 neuroleptic drugs This paper was presented at the 7th Annual Psychoparmacological Meeting, Jesenik, 20-23 Jamary 1965 at the 7th Annual Psychoparmacological Meeting, Jesenik, 20-23 Jamary 1965 SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 221-222 SOURCE: Chlorpromazine, pharmacology, psychoneurotic disorder, nervous system drug ABSTRACT: Chlorpromazine, prochlorperazine, perphenazine, thio- ABSTRACT: Chlorpromazine, and chlorprothixene were investigated. Tidazine, levomepromazine, and chlorprothixene were investigated. Tidazine, levomepromazine, and chlorprothixene were investigated. Tidazine, levomepromazine, of 35-39 were used. The effect of the drug was classified according to disappearance, decrease or no change in the symptoms. No difference in the effect of the drug upon schizophrenia symptoms was found. Orig. art. has: 1 figure. JPAS SUB CODE: 06/ SUBM DATE: none ORIG REF: 002/ OTH REF: 003	L 29477-66 ACC NR: AP601995	* A	SOURCE CODE: CZ/0079/65/0	1 Jes Hunder
Bartova, D.; Svestkova, E.; Andrews, J.; Baudis, P.; Sobotkievicova, J.; Topiar, A.; Tesarova, O.; Molcan, J.; Horak, J.; Baudis, P.; Sobotkievicova, J.; Chloupkova, K.; Bojanovsky, J.; Kubicek, V.; Hankovasky, M.; Vinarova, M.; Bastecky, J.; Grof, P.; Dvorakova, M. Ord: Psychlatric Research Institute, Prague TITLE: Controlled clinical comparison of 6 neuroleptic drugs [This paper was presented at the 7th Annual Psychoparmacological Meeting, Jesenik, 20-23 January 1965 SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 241-242 TOPIC TAGS: chlorpromazine, pharmacology, psychoneurotic disorder, nervous system drug ABSTRACT: Chlorpromazine, prochlorperazine, perphenazine, thio- ridazine, levomepromazine, and chlorprothixene were investigated. ridazine, levomepromazine, and chlorprothixene were investigated. ridazine, levomepromazine, and chlorprothixene were investigated. ridazine in groups of 35-39 were used. The effect of the 222 patients in groups of 35-39 were used. The effect of the no change in the symptoms. No difference in the effect of the drug upon schizophrenia symptoms was found. Orig. art. has: 1 figure. [FPRS] SUB CODE: 06/ SUBM DATE: none ORIG REF: 002/ OTH REF: 003	AUTHOR: Vinar,	O. (Prague); Kulhankura, Tomanova, M.; Rikovsky, S	.; Strnad, M.; Kloubek, A.	; Nahunek, K.;
drug was classified according to disappearance, decrease or no change in the symptoms. No difference in the effect of the drug upon schizophrenia symptoms was found. Orig. art. has: 1 figure. Sub code: 06/ Subm Date: none ORIG REF: 002/ OTH REF: 003	Bartova, D.; Sve	SCKOVA, E. J. Lacitory	n Man D . Cahatk	dedictors in /A
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24,3600 AUTHOR:

Hubert, Jerzy

TTTTE:

The resonant recoilless absorption of gamma rays

PERIODICAL: Postępy fizyki, v. 11, no. 3, 1960, 289-304

TEXT: In the last number of "Postepy fizyki" Abstractor's note: Issue number is not given, there appeared an article by Professor J. Weyssenhoff on the possibilities of confirming the conclusions of the general theory of relativity by laboratory experiments. This article was the first in Polish on the effect of recoilless emission and absorption of gamma quanta, discovered in 1958. Since interest in this effect — which was aroused by the letter of October 15, 1959, written by R.V. Pound and G.A. Rebka Jr. (Ref. 5: Phys. Rev. Letters 3, 439, 1959) — is increasing all the time, the author gives the theory and a survey of results of research based on the application of the Mössbauer

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Effect in physics. He deems it be the more useful, because in all parts of the world the Mössbauer Effect is being applied, e.g. there is now an installation ready in Warsaw to investigate this effect. An apparatus has been designed by Master of Engineering C. Dabrowski, with a view to repeating initially the classical experiment with Iridium. Also in Cracow, at the 200th Scientific and Technological Colloquium, the article of Professor Weyssenhoff aroused much interest and the installation of the necessary apparatus will probably begin in the near future. The author then outlines the theory of Y-ray absorption and emission prior to the discovery of the Mössbauer Effect as discussed by Kai Siegbahn (Ref. 10: Beta- and gamma- ray spectroscopy, Amsterdam 1959, str. 521). The main problem confronting the scientists then was how to make the spectral recoil lines of light and of Trays overlap. This used to be achieved by utilizing three methods: 1) By measuring the coincidence rate of for \$\beta\$ in successive transi-

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tions, since any previous decay of β or γ adds an additional velocity component u to the nucleus in the direction of the absorbent, this velocity component increasing the required energy of the γ -quantum by the amount (u/c). E, where E is the energy of the radiated γ -quantum; 2) Moving the source in the direction of the absorbent with velocity v, which also increases the γ -quantum energy by the same amount; 3) By heating the source, producing thus the Doppler-spread of the line until it reaches energy E (the energy of the excited level of the nucleus). Mössbauer approached the problem in a totally different way, i.e. by asking whether it would be possible for the γ -quantum to react with the whole of the lattice network and not with one nucleus only. The momentum would be then absorbed by the crystal and E2/c2Mk would be practically equal to zero, thus producing the ideal resonance conditions (Mk = the mass of the crystal). Several experiments have proved the possibility of this approach and the author proceeds to outline the theory of the Mössbauer Effect as

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The resonant recoilless ...

given by Harry, J. Lipkin (Ref. 19; Annales of Physics 9, 332 (luty 1960). When considering the emission or absorption of a quantum by a nucleus within a crystal lattice, then a recoilless emission will occur if the f-quantum is emitted without losing any of its energy to the crystal lattice, i.e. if the energy of the lattice remains unchanged before and after the emission, $E(n_f) = E(n_{in})$, where n_f and n_{in} denote the final and initial states respectively. Since $P(n_{in}, n_f)$ is the probability of transition in which the energy of crystal lattice does not change, the coefficient in the expression for the average energy transferred to the crystal lattice.

$$\sum_{n_{f}} \{E(n_{f}) - E(n_{in})\} P(n_{f}, n_{in}) = \frac{E^{2}}{2Mc^{2}}.$$
 (14)

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The resonant recoilless...

is equal to zero and Eq. (14) reduces to

$$\sum_{\substack{n_{f} \neq n_{in}}} (E (n_{f}) - E (n_{in})) P (n_{f}, n_{in}) = \frac{E^{2}}{2Mc^{2}}$$
 (14')

having
$$B = \sum_{n_f \neq n_{in}} P(n_f, n_{in})$$
 and remembering that $\sum_{n_f} P(n_f, n_{in}) = 1$ (7)

Eq. (14') reduces to $P(n_{in}, n_{in}) = 1 - B$ (15)

which shows that the probability of transition without any change in the energy of the crystal lattice is not zero for conditions when Eq. (14) is satisfied by the transitions, whose total probability is less than one. It follows that the probability of recoilless emission is the larger, where the probability of the

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The resonant recoilless ...

transition of the crystal lattice from a low to a higher energy state is larger (as compared with E²/Mc²). The Mössbauer Effect should be sought, therefore, among crystals satisfying the following conditions: With nuclei radiating the soft emission, at as low temperature as possible and with atoms bound together as strongly as possible. The results of experiments, based on the Mössbauer Effect are illustrated by the author with two classical examples which clearly show the technique which has been and must be used — that with Iridium 191 as cited by R.L. Mössbauer (Ref. 1: Z. Physik, 151, 124, 1958); (Ref. 2: Naturwissenschaften, 45, 538, 1958; and Z. Naturforschung, 14a, 211, 1959); by Craig, Dash, Mc Guire, Nagle, Reiswig (Ref. 3: Phys. Rev. Letters 3, 221, 1959); by Lee, Meyer-Schutzmeister, Schiffer, Vincent (Ref. 4: Phys. Rev. Letters 3, 223, 1959); and Iron 57 by R.V. Pound, G.A. Rebka Jr. (Ref. 6: Mays. Rev. Letters 3, 554, 1959); by J.P. Schiffer, W. Marshall (Ref. 7: Phys. Rev. Letters 3, 556, 1959); by Hanna, Heberle, Mittlejohn, Perlow, Preston, Vincent (Ref. 11:

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Phys. Rev. Letters 4, 28, 1960); by De Pasquali, Frauenfelde, Margulies, Peacock (Ref. 12: Phys. Rev. Letters 4, 71, 1960); by Hanna, Hammermesh, Littlejohn, Vincent, Preston, Heberle (Ref. 13: Phys. Rev. Letters 4, 74, 1960). The experiments with Iridium may be divided into three groups: 1) Measurement of absorption as dependent on the thickness of the absorbent; 2) Measurement of absorption as dependent on the temperature of the absorbent; 3) Measurement of the absorption as dependent on the velocity of the source with respect to the absorbent. 1) The experiment is performed at a constant temperature of 4°K. Values obtained for P(n_{in},n_f) and of P'(n_{in},n_f) / where P'(x) is the probability of the absorption of the J quantum without the emission of phonon, were of the order of 0.07 and 0.047 respectively, which shows that the increase in absorption is of the order of 1%; 2) The resonance absorption above 300°K is zero. The Debye temperature for Osmium is 300±25°K and for the Iridium 262±32°K, which is in complete agreement with theoretical evaluation from Eq. (14).

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The resonant recoilless ...

This method gives directly the width of the investigated line. The results obtained are of the same order of magnitude as those obtained, using the coincidence methods (for line 192 keVt 10-10 sec.) /Abstractor's note: is not defined. Experiments with Iron: The line width is 100 times smaller than the corresponding width of Iridium, and because of the smaller ray energy the probability P(n_{in},n_f) is of the order of 63%, even at room temperature, which results in an increase in resonant absorption by about 20% and this absorption becomes sensitive to the relative movement of the source of the order of mm/sec. In conclusion it is stated that hitherto the Mössbauer experiment has been performed using the following elements: 119 sn, 190 Ir, 193 Ir, 182 W: 168 Er, 153 Eu, 57 Fe and experiments with silver 107 or 109 are envisaged. These have the excited level with a mean lifetime 63 and 58 sec., which would correspond to a line with the natural

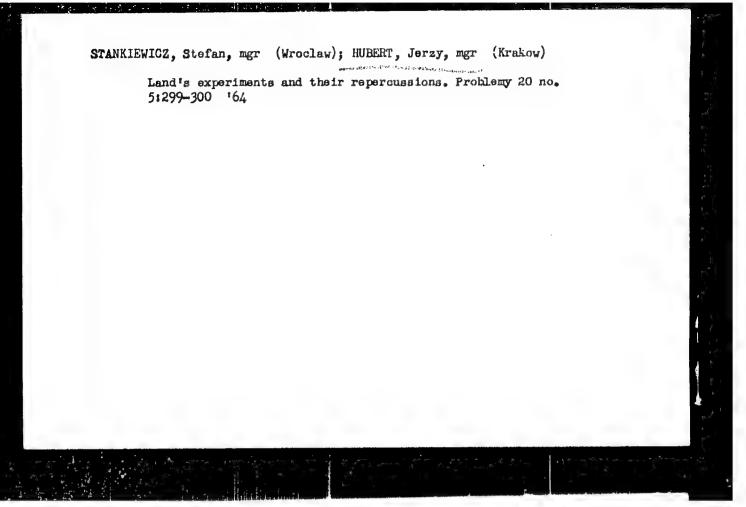
Card 8/9

The resonant recoilless ...

width of 10⁻¹⁷ eV; this opens quite a wide field of investigations into weak (e.g. gravitational) interactions. These possibilities would, however, impose severe conditions of accuracy and stabilization (thermal or seismic) on the installation itself and the measuring devices associated with it. There are 10 figures and 19 non-Soviet-bloc references. The references to the English-language publications read as follows: Harry, J. Lipkin, Annales of Physics, 9, 332, 1960 / Abstractor's note: The reference should read Harry J. Lipkin etc.; Hanna, Hammermesh, Littlejohn, Vincent, Preston, Heberle, Phys. Rev. Letters, 4, 74, 1960; De Pecuali, Frauenfelde, Margulies, Peacock, Phys. Rev. Letters, 4, 71, 1960; Hanna, Heberle, Littlejohn, Perlow, Preston, Vincent, Phys. Rev. Letters, 4, 28, 1960.

ASSOCIATION: Instytut fizyki uniwersytetu Jagiellońskiego Kraków (Institute of Physics of the Jagiellonski University, Cracow).

Card 9/9



HUBERT, Jerzy, mgr

Metamorphoses of pink; from the borderland of physics, psychology, and physiology. Problemy 19 no.4:239-247 '63.

HUBERT, Miroslav, inz.

Wing boats in passenger transport. Doprava no.8:269-271

HUBBART, W.

Mechanization of weighing grain. p. 9. GUSFUDARKA ZEOZOWA. Vol. 7, No. 4, Apr. 1956. Warszawa.

East European Accessions List (EEAL) Library of Congress Vol. 5, No. 11, August 1956.

HUBIC, R.

CZECHOLLOVAKIA / Virology. Human and Animal Virusus. E

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5324.

Author : Bohac, J.; Barok, B.; Dombok, R.; Hubic, R.;

Laznicka, F.

Inst : Not given.

Title : Hyperimmune Sera of Cattle and Convalescents'

Sora. Tosts in Neutralizing Bora to Determine

the Quality of Commercial Prophylactic Sera.

Crig Pub: Veterin. med., 1958, 3, No 3, 179-186.

Abstract: No abstract.

Card 1/1

HUBICKA, Emanuel, MUDr.

Progressive epifascial gangrene. Roshl. chir. 36 no.3:125-130 Mar 57.

1. Chirurgicke oddeleni OUMZ Turnov, prednosta prim. MUDr Antonin Pavlicek. Pamatce krajskeho chirurga prim. MUDr Svatopluka Poura. (GANGRENE, case report

progr. epifascial after appendectomy (Cz)) (APPENDICITIS, surg.

postop, progr. epifascial gangrene (Cz))

HUBICHAE.

877. Functional changes of the kidneys in prostatism Funkeni zmeny ledvin u prostatiku. Hunicka E. Chir. Odd. OUNZ, Turnov Rozhl. Chir. 1957, 36/5 (331-342) Graphs 1

The author investigated, without selection of any kind, 20 patients with prostatic obstruction, and found in all marked disturbances of renal function, both of the glomerular apparatus and the distal nephron. Follow-up studies in 10 patients 3-4 months after prostatectomy showed that these changes persisted or even became worse chiefly in those cases where signs of chronic infection of the urinary tract remained. Since the degree of renal damage increases with age and with duration of urinary stasis, timely surgical intervention is recommended, and the necessity is stressed for adequate therapy of residual pyelonephritis, which in the majority of cases persists for long periods even following freeing of the obstructed urinary tract, and which leads to irreparable renal changes, with the possibility of the development of secondary hypertension.

HUBICKA, E.

Spontaneous rupture of the pathologically changed liver.
Rozhl. chir. 42 no.6:395-397 Je '63.

1. Chirurgicka oddeleni nemocnice v Turnove, vedouci MUDr.
A. Pavlicek.

(LIVER CIRRHOSIS) (HEPATIC VEINS)

(SURGERY, OPERATIVE)

HRUSKA, Vladimir; HUBICKA, Emanuel

Traumatic pneumocephalus. Rozhl. chir. 38 no.6:407-412 June 59

1. Chirurgicke oddeleni KUNZ v Liberci, primar MUDr. V. Drešnar. Chirurgicke oddeleni OUNZ v Turnove, primar MUDr. A. Pavlicek.
(BRAIN, dis.) (SKULL, fract.)

HUBICKA, manuel SURINE. Given Names Country: Czechoslovakia Academic Degrees: Department of Surgery (Chirurgicke oddeleni) of the Hospital Affiliation: In Turnov; OUNZ /Okresni ustav narodniho zdravi; Okres Institute of Public Health/, Semily; Director: A. FAVLICEK, MD. Sources Prague, Prakticky Lekar, Vol 41, No 12, 1961, pp 543-545. "Appendicitis Herniaria." Source: Batas HUBICKA, Emanuel, MD Authors KRTICKA, Jaroslav, Graduated Physician (promovany lekar) 115

POLAND / analytical Chemistry, Analysis of Organic Substances

: Rof Zhur - Khim., No 15, 1958, No 50067 ibs Jour

: Hubicka, Krystyna, uthor 1 M. Curio-Sklodowska Univorsity. Inst

: Amporomotric Dotormination of Ascorbic Acid With K3/Fc(CY)6/ Titlo

E-3

: Ann. Univ. M. Curio-Sklodowska, 1955, (1957), AA10, 53-42. Orig Pub

: The amperemetric titration of \sim 0.01 N solutions of ascorbic ..bstract acid was studied. The titration was carried out with 0.05 N solution of K₃/F₀(CN)₆ / in a solution buffored with KH₂PO₄-Na₂HPO₄ to pH = 7 using a rotating Pt microelectrode and applying a voltage of 0.2 - 0.3 v. The results of titration are well reproducible. The mean error is plus/ minus 2%. If solutions of K2Cr2O7 or K2CrO2 wore used as titrants in a not buffored solution (with the addition of acid, as well as without the addition), the results ob-

tained are not satisfactory. -- T. Lovi.

Card 1/1

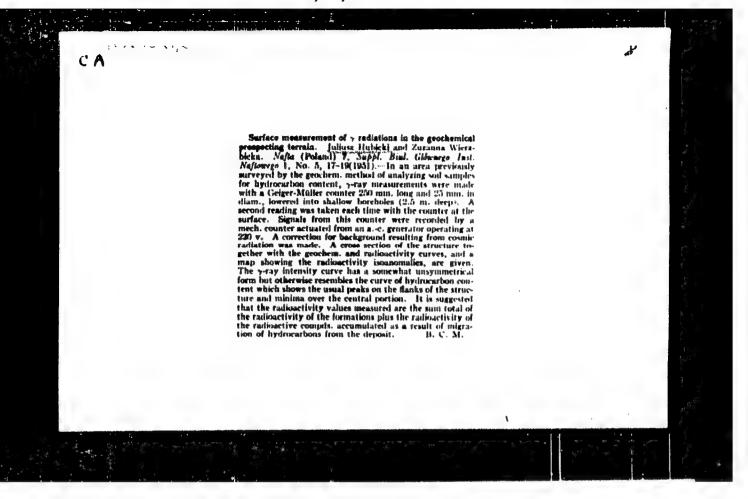
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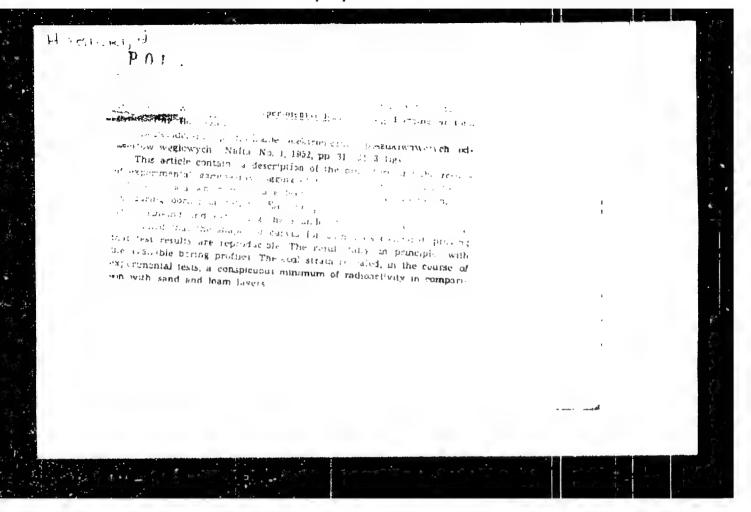
HUBICKA, V.

"The labor force in construction."

POZEMNI STAVEY, Praha, Czechoslovakia, Vol. 3, No. 10, October 1955.

Monthly List of East European Accessions (SEAI), LC, Vol. 8, No. 9, September 1959. Unclassified.

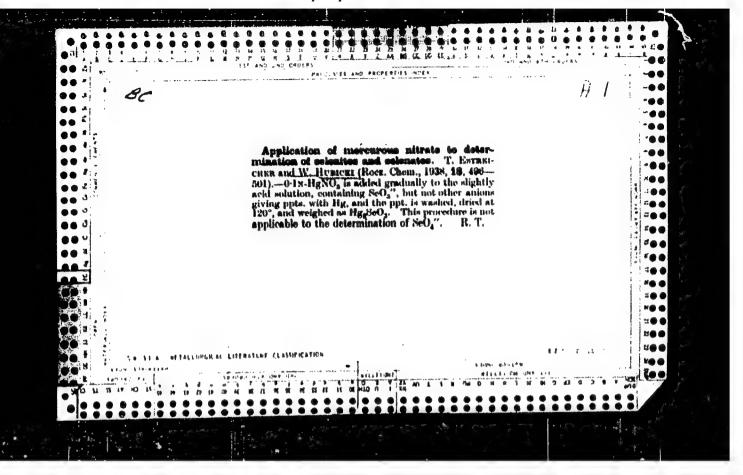


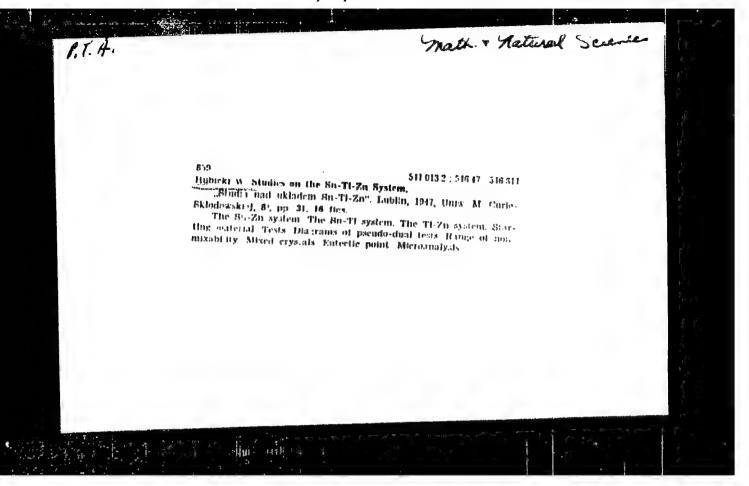


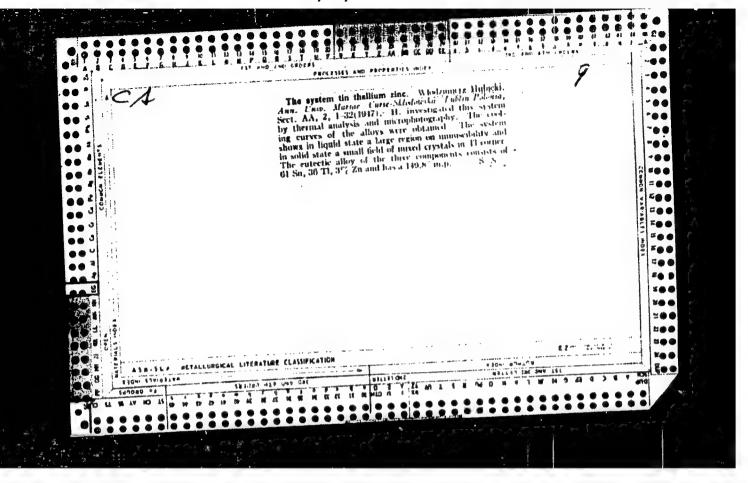
HUBICKI, Wlodzimierz

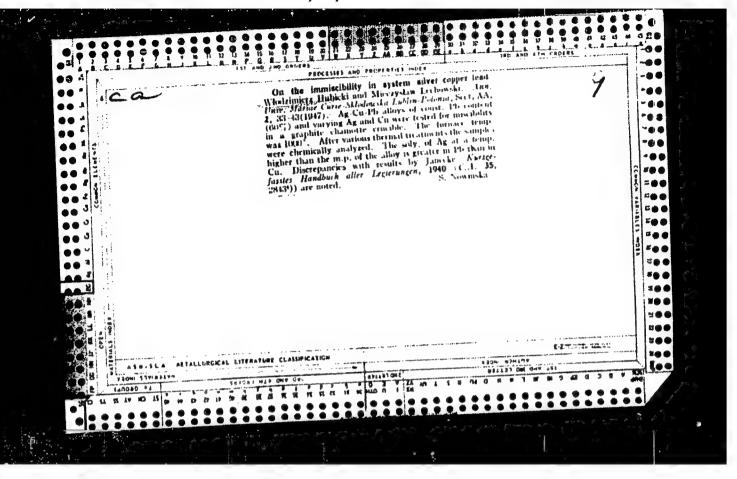
Was alchemy taught in Krakow University in the past? Kwart hist nauki i tech 9 no. 2: 199-210 164.

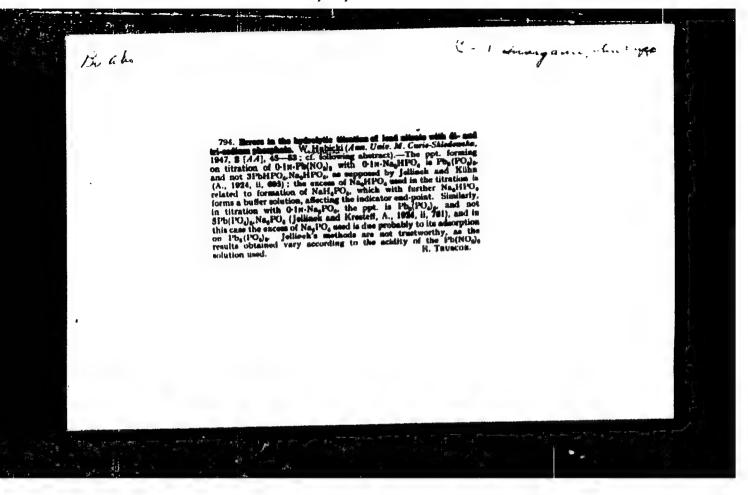
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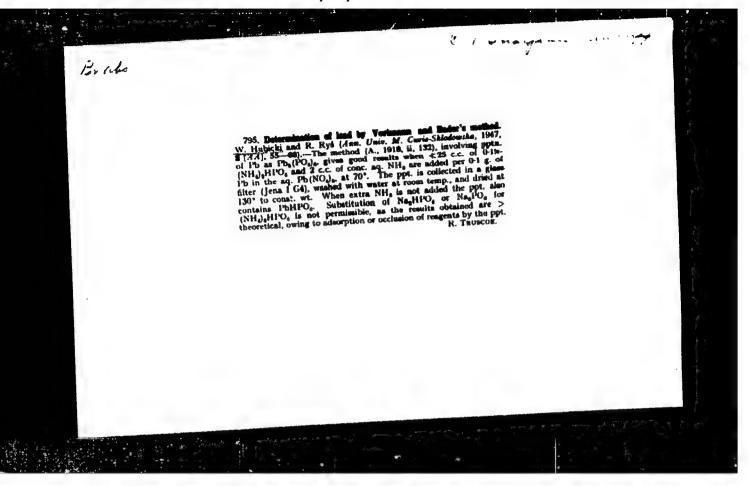


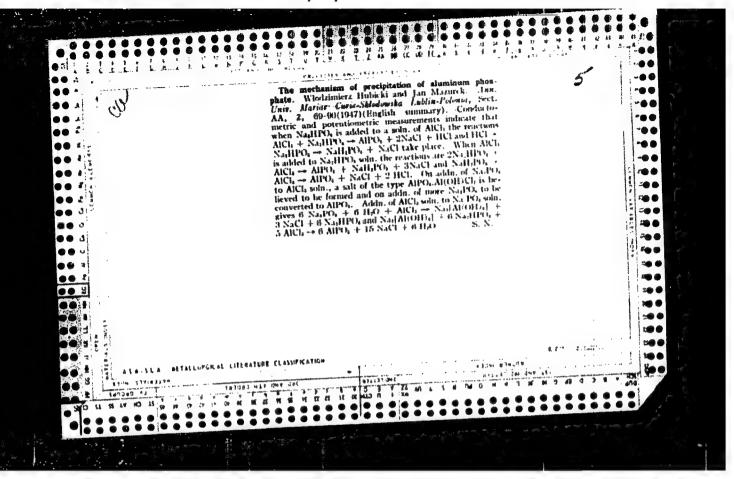


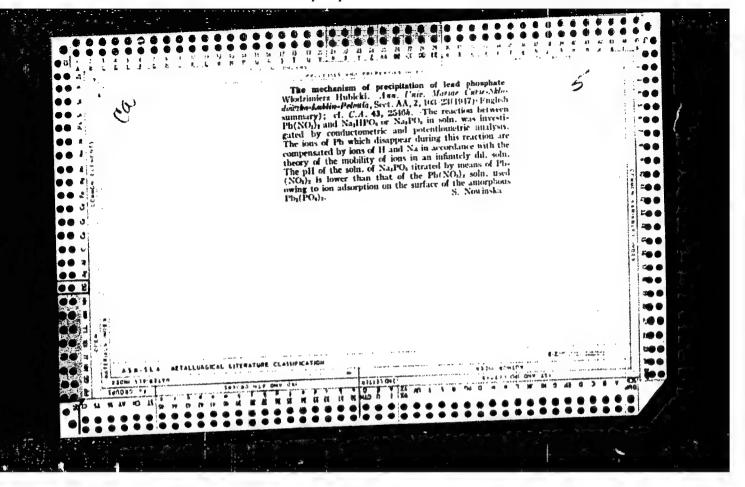






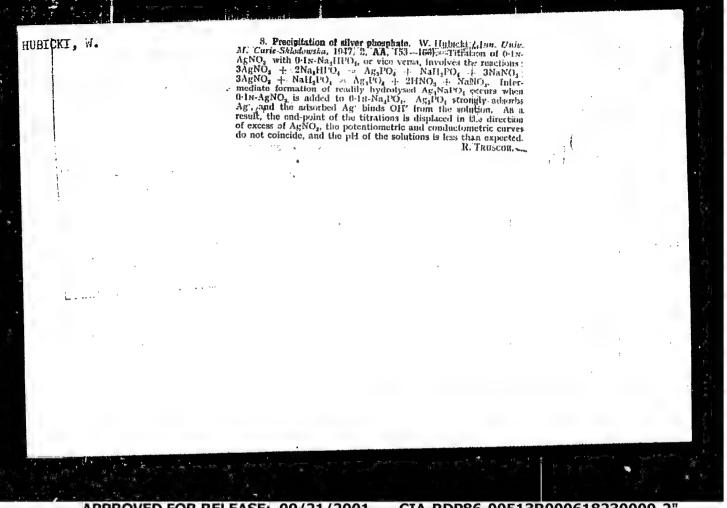


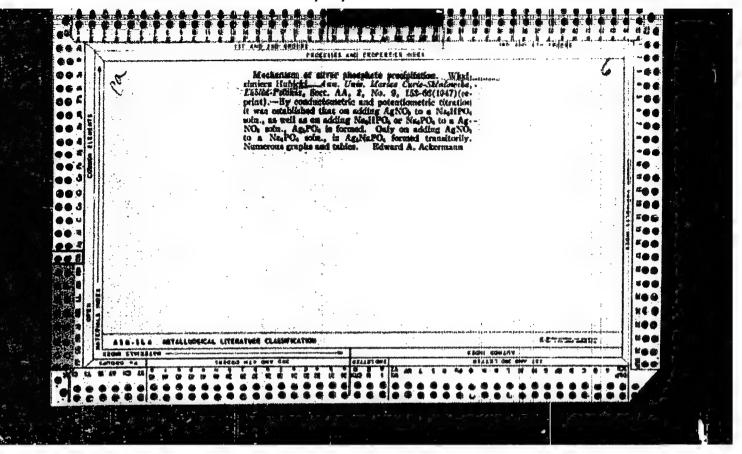


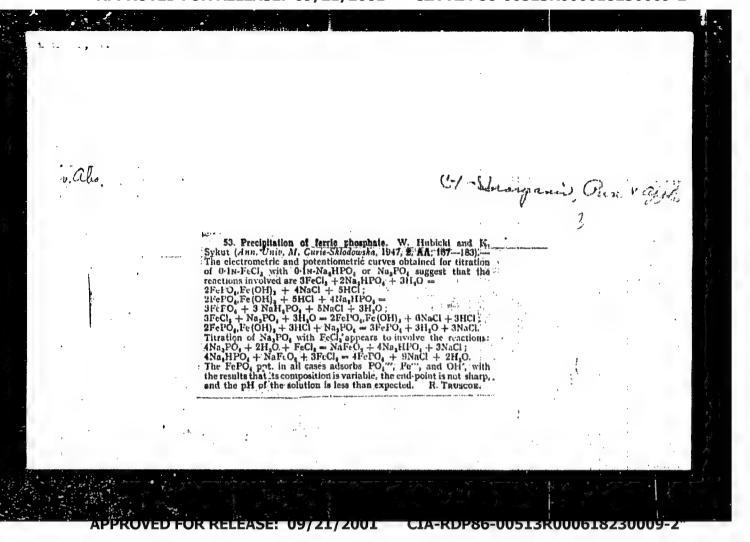


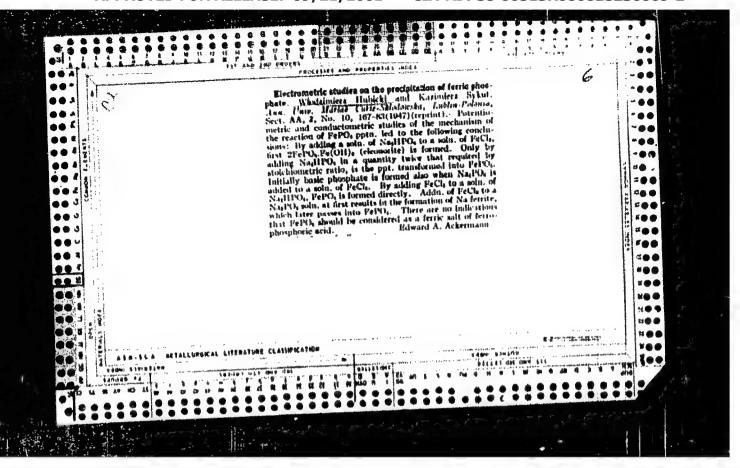
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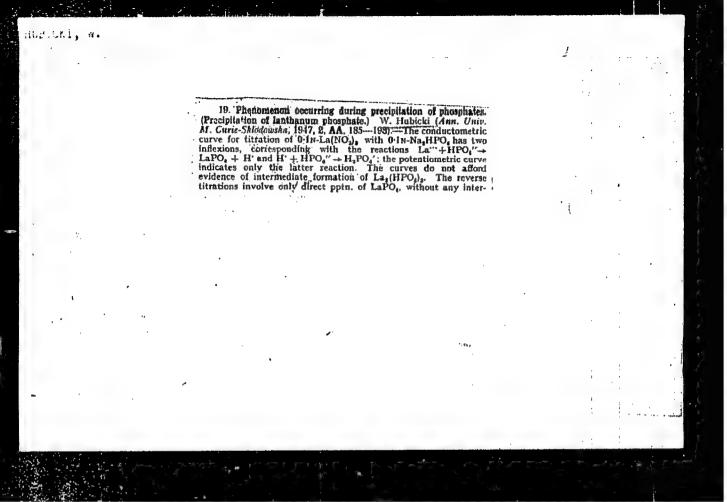
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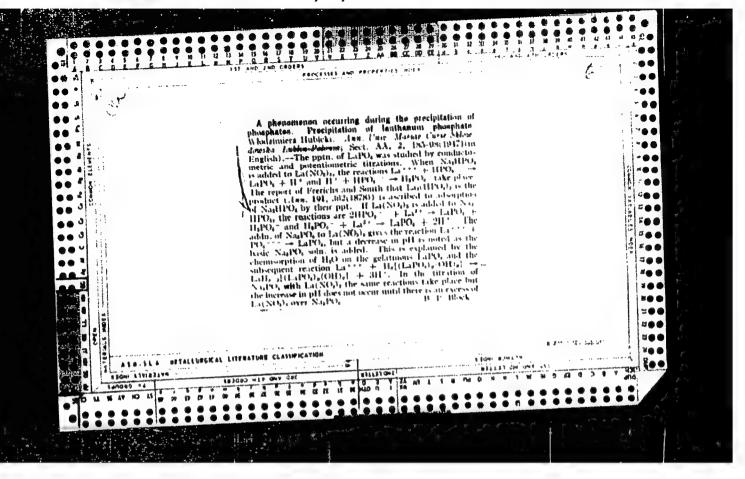


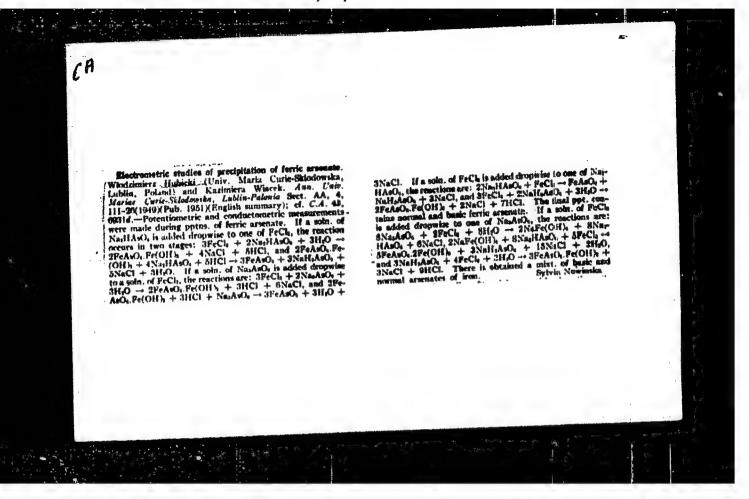


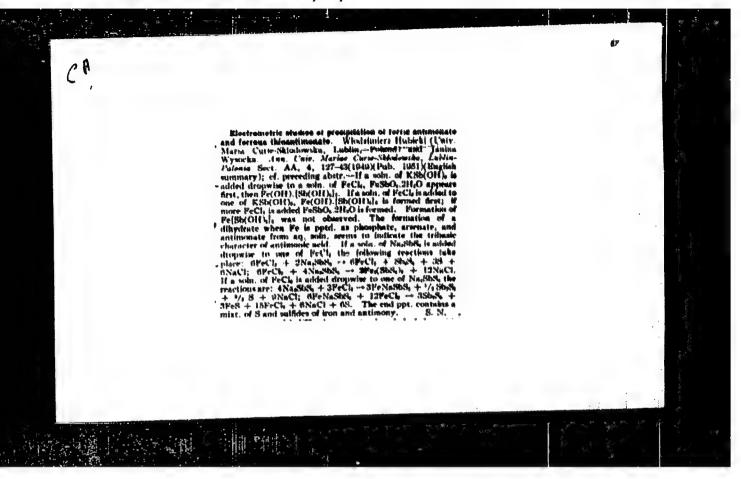












HUBICKI, W.

2448. Determination of lead as lead hydrogen phosphate. W. Hubicki, B. Frank, and J. Trau (Ann. Univ. M. Curia-Shiodowska, 1950, 5, [AA], 53-64).—A new gravimetric method for the quant. determination of lead is described. A solution is prepared which contains 0-1—0-5 g. of Pb, 0-5 ml. of HNO₄ (1: 1), 100—150 ml. of distilled water, and 4 ml. of H₂PO₄ (sp. gr. 1-25). The solution is heated to the b.p. and a cone solution of NH₃ is added dropwise, to pH 4. Under these conditions a cryst. ppt. of PbHPO₄ is formed. The ppt. is filtered off, washed with distilled water, dried to constant weight it 200°, and weighed. The mean error in seven determinations of amples of pute lead is 0-13%. The use of ethanol for washing the ppt. gives slightly better results. S. K. Lachowicz.

